

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

- Fee Transmittal Form (e.g. PTO/SB/17)  
*(Submit an original and a duplicate for fee processing.)*
- Applicant claims small entity status.  
See 37 CFR 1.27.
- Specification [Total Pages 22]  
*(preferred arrangement set forth below)*
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed Sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (*if filed*)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
- Drawing(s) (35 U.S.C. 113) [Total Sheets 10]
- Declaration & Power of Attorney [Total Pages 3]
  - a.  Newly executed (original or copy)
  - b.  Copy from a prior application (37 CFR 1.63 (d))  
*(for continuation/divisional with Box 17 completed)*
    - i.  DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s)  
named in the prior application. see 37 CFR 1.63(d)(2) and 1.33(b).
- Application Data Sheet. See 37 CFR 1.76

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation    Divisional    Continuation-in-part (CIP)

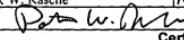
of prior application No.:

Group Art Unit:

Prior application information: Examiner \_\_\_\_\_  
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 18, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

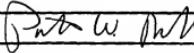
19. CORRESPONDENCE ADDRESS

Customer Number or Bar Code Label      (Insert Customer No. or Attach bar code label here)      or       Correspondence address below

Name	Patrick W. Rasche				
Address	Armstrong Teasdale LLP One Metropolitan Square, Suite 2600				
City	St. Louis	State	MO	Zip Code	63102
Country	US	Telephone	314.621.5070	Fax	314.621.5065
Name (Print/Type)	Patrick W. Rasche	Registration No. (Attorney/Agent)	37,916		
Signature					

Certificate of Express Mail

I certify that the documents listed on this form are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above in an envelope addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Patrick W. Rasche		July 25, 2003
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(Printed Name of Person Mailing Correspondence)	(Signature of Person Mailing Correspondence)	Date
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03505 U.S. PTO  
10/62716

07/25/03

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# FEE TRANSMITTAL

## for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 830.00)

## Complete if Known

Application Number	
Filing Date	
First Named Inventor	Akira Hagiwara
Examiner Name	
Art Unit	
Attorney Docket No.	16CT01218

## METHOD OF PAYMENT (check all that apply)

 Check    Credit card    Money Order    Other    None
 Deposit Account:

Deposit Account Number	01-2384
Deposit Account Name	Armstrong Teasdale

The Commissioner is authorized to: (check all that apply)  
 Charge fee(s) indicated below    Credit any overpayments  
 Charge any additional fee(s) during the pendency of this application  
 Charge fee(s) indicated below, except for the filing fee  
 to the above-identified deposit account.

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity	Small Entity	Fee	Fee	Fee	Fee Description	Fee Paid
Fee Code (\$)	Fee Code (\$)	Fee	Fee	Fee	Fee Description	Fee Paid
1001 750	2001 375				Utility filing fee	750.00
1002 330	2002 165				Design filing fee	
1003 520	2003 260				Plant filing fee	
1004 750	2004 375				Reissue filing fee	
1005 160	2005 80				Provisional filing fee	
SUBTOTAL (1) (\$ )		750.00				

## 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Large Entity	Small Entity	Fee from below	Fee Paid
Total Claims	[14]	-20** = [0]	x [0.00]
Independent Claims	[3]	-3** = [0]	x [0.00]
Multiple Dependent			

Large Entity	Small Entity	Fee	Fee	Fee	Fee Description
Fee Code (\$)	Fee Code (\$)	Fee	Fee	Fee	Fee Description
1202 18	2202 9				Claims in excess of 20
1201 84	2201 42				Independent claims in excess of 3
1203 280	2203 140				Multiple dependent claim, if not paid
1204 84	2204 42				** Reissue independent claims over original patent
1205 18	2205 9				** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2) (\$ )		0.00			

\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

## 3. ADDITIONAL FEES

Large Entity	Small Entity	Fee	Fee	Fee	Fee Description	Fee Paid
Fee Code (\$)	Fee Code (\$)	Fee	Fee	Fee	Fee Description	Fee Paid
1051 130	2051 65				Surcharge - late filing fee or oath	
1052 50	2052 25				Surcharge - late provisional filing fee or cover sheet	
1053 130	2053 130				Non-English specification	
1812 2,520	1812 2,520				Requesting publication of SIR prior to Examiner action	
1804 920*	1804 920*				Requesting publication of SIR after Examiner action	
1805 1,840*	1805 1,840*				Requesting publication of SIR after Examiner action	
1251 110	2251 55				Extension for reply within first month	
1254 410	2252 205				Extension for reply within second month	
1253 930	2253 465				Extension for reply within third month	
1254 1,450	2254 725				Extension for reply within fourth month	
1259 1,970	2259 985				Extension for reply within fifth month	
1401 320	2401 160				Notice of Appeal	
1402 320	2402 160				Filing a brief in support of an appeal	
1403 280	2403 140				Request for oral hearing	
1451 1,510	1451 1,510				Petition to institute a public use proceeding	
1452 110	1452 55				Petition to revive - unavoidable	
1453 1,300	1453 2453				Petition to revive - unintentional	
1501 1,300	1501 2501				Utility issue fee (or reissue)	
1505 470	1505 2502				Design issue fee	
1503 630	1503 2503				Plant issue fee	
1460 130	1460 1460				Petitions to the Commissioner	
1807 50	1807 50				Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180				Submission of Information Disclosure Stmt	
8021 40	8021 40				Recording each patent assignment per property (times number of properties)	\$ 80.00
1809 750	1809 375				Filing a submission after final rejection (37 CFR 1.129(a))	
1810 750	1810 375				For each additional invention to be examined (37 CFR 1.129(b))	
1801 750	1801 2801				Request for Continued Examination (RCE)	
1802 900	1802 1802				Request for expedited examination of a design application	
Other fee (specify)						
*Reduced by Basic Filing Fee Paid						
SUBTOTAL (3) (\$ )		80.00				

(Complete if applicable)

Name (Print/Type)	Patrick W. Rasche	Registration No. (Attorney/Agent)	37,916	Telephone	314-621-5070
Signature					
Date	July 25, 2003				

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.